

May 2019

(www.k7id.org)

P.O. Box 1765 Hayden, ID 83835-1765

REGULAR CLUB MEETINGS:

Monday, May 13, 7:00 p.m.
Search & Rescue Bldg
10865 N Ramsey Rd.
Hayden, Idaho
Topic: Computer Logging
Presenter:
Refreshments: ???

VE Testing
Monday, May 13, 5:30 p.m.
10865 N Ramsey Rd.
Hayden, Idaho

Monday, June 10, 7:00 p.m.
Search & Rescue Bldg
10865 N Ramsey Rd.
Hayden, Idaho
Topic:
Presenters:
Refreshments:

VE Testing
Monday, June 10, 5:30 a.m.
Search & Rescue Bldg
10865 N Ramsey Rd.
Hayden, Idaho

Upcoming Events

KARS Hamfest
July 20, 2019
Prairie View Elementary
Greensferry & Poleline,
Post Falls, Idaho

QRM from the President

Today is Easter Sunday as I write this column. It is hard for me to believe we are already nearing the end of April! I am thankful for the snow departing and giving way to the green new growth of Spring. Much is happening within our radio club and I am excited for us all as we move into new areas of growth for each of us!

Our April meeting was a big success with 9 (NINE) "Show and Tell" projects our hams shared with each other! Excitement and RF was in the air as club attendees brought items, projects and demonstrations before our group to share their interests. We didn't have time to have more presenters! It was a full house! "Show and Tell" was a big success and we will do that more often!

Speaking of success, the Little Blacktail repeater is finally back on line as of yesterday, Saturday, April 20th! 3 brave souls, Vice-President Jerry Hart (W7KR), Dale Duree, Repeater Tech (KE7VMN) and I suffered the trip up the hill and hiked to the site due to road closure (snow...of course) but Mission Accomplished! We are in "testing mode" now to see how the repeater performs with the new frequency but it seemed to work well on last night's NWTN net. The new frequency is 146.780, negative offset with PL in/out of 127.3. Tune in and try it out! It is linked to our Mica and Canfield repeaters.

Our KARS club is also sponsoring the annual ARRL Field Day June 22, 23 at Majestic Park in Rathdrum. We are planning on many radio stations with antenna systems, operating portably and simulating semi-emergency conditions. This is a TON of fun and all operators are welcomed to join in. You could work all the radio stations present OR bring your own and share in the fun. Never done HF? Here is your chance! More details to come as this is a work in progress!

KARS HamFest is also just around the corner, Saturday, July 20th! Our location this year is in Post Falls at the corner of Greensferry and Poleline, the Prairie View Elementary School! Swap tables, prizes, meeting friends and seeing a lot of gear! Food and drinks will be available and this is a great fund-raising event for our club. See how you can help out...and we NEED help!!! Stuff to sell? Bring it on!!! Looking for ham's stuff? You will probably see it here!

Our May KARS meeting will feature computer logging software we will be using during Field Day. Several laptops will be wirelessly connected at each of our radio station to record all those QSOs and keep them in order. If you have not tried logging software...you don't know what you are missing! It makes your record-keeping SOOOO much easier! Join the fun!

See? LOTS going on in your radio club! Get involved, become a member or renew your membership and help support your club! We all hope to see you in May! Check out our K7ID Facebook page too!

Frank Krug, KD7FK
President, K7ID.org

Kootenai Amateur Radio Society (KARS)
April 2019 Meeting Minutes

The April 8, 2019 KARS meeting was held at the Search & Rescue Building located at 10865 N Ramsey Rd. Hayden, Idaho.

The meeting was called to order at 7:00 pm by Club President Frank Krug (KD7FK). The Pledge of Allegiance was led by Quint Webb (W7CQW).

Guests and first time visitors were given an opportunity to introduce themselves.

Attendance: Thirty-five (35) members and five (5) visitors were in attendance.

VE Testing: Five people tested and the results were as follows:

Passed Technician	2
Passed General	1
Passed Extra	2

Minutes: Gabbee Perry (KE7ADN) moved to accept the March 2019 minutes; Dave Boss (KF7YWR) seconded; the motion passed by unanimous consent.

The Treasurer's Report was given by Rod Anderson (K7ZBE):

March 2019

Checking	\$ 487.27
Savings	\$1,252.60
Petty Cash	\$ 83.56
TOTAL	\$1,823.43

Income: Savings interest (\$0.03), Memberships (\$133.00). Total \$133.03.

Expenses: USPS-Post Office Box (\$118.00), North Idaho State Fair-Booth (\$350.00). Total \$468.00.

Bob Kesson (K7CGA) moved to accept the Treasurer's

report; Gabbee Perry (KE7ADN) seconded; the motion passed by unanimous consent.

Membership: Frank Krug (KD7FK) encouraged membership in the KARS club.

OLD BUSINESS

*Repeater Report: Frank Krug (KD7FK) reported that the frequency for the Little Blacktail repeater will be 146.780 MHz. There is still too much snow to get up to the site to reinstall the repeater. There also may still be an interference problem due to two other repeaters that are in the building at the site that are not protected with tones. A circulator and low pass filter can be added to resolve any noise or interference issues. The approximate cost is \$500 to \$700.

*Hamfest: Frank Krug (KD7FK) announced this year's Hamfest will be held at Prairie View Elementary School on July 20th. There will be no cost to the KARS club for use of the facility; however the school janitor will need to be on site and will cost \$15/hour. Tables and chairs are available for use.

*Field Day: Frank Krug (KD7FK) announced that field day will be held June 22-23 at Majestic Park in Rathdrum.

SPECIAL EVENT

Lenny Gemar (N7MOT) was honored for his many years of service to the KARS Club.

NEW BUSINESS

*Frank Krug (KD7FK) announced that the end fed antenna is ready to be installed at the Search and Rescue Building. The antenna will be able to support 10 to 80 meters.

Lenny (N7MOT) & Claire Gemar (N5CMG) were honored once again for their service to the KARS Club.

Frank Krug (KD7FK) was honored for participating in his first CW QSO.

Evening Presentation: The evening presentation was a Show-N-Tell session which consisted of several members who brought items they had built or presented something they had learned about.

1) Michael Glauser (AI7MG): 2 meter slot antenna and a

demonstration of sending email via radio.

- 2) Bob Kesson (K7CGA): Battery pack and “fox”.
- 3) Martin Waller (KG7LRV): Fox hunting antenna
- 4) Tom Macy (W7UAT): Direction finding antenna
- 5) Bearpaw Galindo (KE7ADT): J-pole antenna
- 6) Rod Anderson (K7ZBE): Window mount antenna for a hand-held radio
- 7) Jerry Hart (W7KR): CW gadget for a hand-held radio
- 8) Frank Krug (KD7FK): SDR receivers
- 9) Larry Telles (K6SPP): Packet radio and slow/fast scan TV

The May meeting presentation will be a demo on the logging software that will be used for field day.

Raffle Results: The raffle was not held this evening.

Martin Waller (KG7LRV) moved to adjourn; Gabbee Perry (KE7ADN) seconded. The motion passed by member vote and the meeting was adjourned at 8:43 pm.

Amateur Radio in Space Pioneer Astronaut Owen Garriott, W5LFL, SK

The US astronaut who pioneered the use of Amateur Radio to make contacts from space - Owen K. Garriott, W5LFL - died April 15 at his home in Huntsville, Alabama. He was 88. Garriott’s ham radio activity ushered in the formal establishment of Amateur Radio in space, first as SAREX - the Shuttle Amateur Radio Experiment, and later as [ARISS](#) - Amateur Radio on the International Space Station.

“Owen Garriott was a good friend and an incredible astronaut,” fellow astronaut Buzz Aldrin tweeted. “I have a great sadness as I learn of his passing today. Godspeed Owen.”

An Oklahoma native, Garriott - an electrical engineer - spent 2 months aboard the *Skylab* space station in 1973 and 10 days aboard *Spacelab-1* during a 1983 Space

Shuttle *Columbia* mission. It was during the latter mission that Garriott thrilled radio amateurs around the world by making the first contacts from space. Thousands of hams listened on 2-meter FM, hoping to hear him or to make a contact. Garriott ended up working stations around the globe, among them such notables as the late King Hussein, JY1, of Jordan, and the late US Senator Barry Goldwater, K7UGA. He also made the first CW contact from space. Garriott called hamming from space “a pleasant pastime.”

“I managed to do it in my off-duty hours, and it was a pleasure to get involved in it and to talk with people who are as interested in space as the 100,000 hams on the ground seemed to be,” he said in an interview published in the February 1984 edition of *QST*. “So, it was just a pleasant experience, the hamming in particular, all the way around.”

Although Garriott had planned to operate on ham radio during his 10 days in space, no special provisions were made on board the spacecraft in terms of equipment - unlike the situation today on the International Space Station. Garriott simply used a hand-held transceiver with its antenna in the window of *Spacelab-1*. His first pass was down the US West Coast.

“[A]s I approached the US, I began to hear stations that were trying to reach me,” he told *QST*. “On my very first CQ, there were plenty of stations responding.” His first contact was with Lance Collister, WA1JXN, in Montana.

ARISS ARRL Representative Rosalie White, K1STO, met Garriott when he attended Hamvention, “both times, sitting next to him at Hamvention dinner banquets,” she recounted. “Once when he was a Special Achievement Award winner, and once with him and [his son] Richard when Richard won the 2009 Special Achievement Award. Owen was unassuming, very smart, kind, and up to date on the latest technology.” Garriott shared a Hamvention Special Achievement Award in 2002 with fellow Amateur Radio astronaut Tony England, W0ORE.

Richard Garriott, W5KWQ, was a private space traveler to the ISS, flown there by the Russian Federal

Space Agency, and he also carried ham radio into space.
(ARRL News)

Honda Portable Generators Recalled Due to Potential Fire Hazard

American Honda has announced that it is voluntarily recalling some 200,000 of its portable generators sold in the US due to a potential fire and burn hazard. The recall includes the EU2200i, EU2200i Companion, and EB2200i generators. The US Consumer Product Safety Commission (CPSC) says the affected portable generators can leak gasoline from the fuel valve. Users should stop operating the recalled generator and contact an authorized Honda dealer for a free repair. Honda is also contacting users directly. For more information, [visit the CPSC website](#). A similar recall has been issued in Canada. (ARRL News)

Formerly Detained Ham Chosen for Spirit Award

NEIL/ANCHOR: Congratulations to the Norwegian radio amateur who has been awarded the Intrepid Spirit Award from the Intrepid-DX Group. Mike Askins KE5CXP has those details.

MIKE: The big announcement at the 70th annual International DX Convention in Visalia California is that Kenneth Opskar, LA7GIA, is the recipient of the Intrepid Spirit Award. Ken's weeklong detention in Chad, following the shutdown of his solo DXpedition as TT8KO, made global news last October after security police stepped in and closed his station. He was not released until the 24th of October. The group chose him for the award in acknowledgement of his operations under difficult circumstances. The honor memorializes James McLaughlin T6AF who became a Silent Key in Afghanistan in 2011.

For Amateur Radio Newslines I'm Mike Askins KE5CXP.

NEIL/ANCHOR: Kenneth has written a detailed account of his experience in Chad - the story of his activation as well as his detention. You can read more at the link posted in the printed script of this newscast. Visit our website arnewsline.org to see it.

[<https://dx-world.net/wp-content/uploads/2018/11/TT8KO-story.pdf>]

Giving Military Communications the Time of Day

JIM/ANCHOR: In the U.S., two government shortwave stations are giving support - and a time slot - to help the Department of Defense. Jack Parker W8ISH has that story.

JACK: WWV and WWVH, the shortwave radio stations of the U.S. National Institute of Standards and Technology, are making provisional time slots available to the U.S. Department of Defense for announcements of military communications exercises on the HF bands - activities that include amateur radio. The first announcements will be heard between the 20th of April and the 3rd of May in connection with an interoperability exercise in Wisconsin.

The announcements can be heard at 10 minutes past the hour on WWV and at 50 minutes past the hour on WWVH. The U.S. Army Military Auxiliary Radio System's program manager Paul English WD8DBY, said that the defense department's use of the broadcast time slots will be a big help in the MARS program's mission to reach out to the ham community.

WWV and WWVH transmit on 2.5, 5, 10, 15, and 20 MHz.

Another transmission will occur in June for an exercise in Ohio.

The government-funded stations faced closure under the agency's 2019 budget proposal last year but were saved. However the agency is now facing a cut of one-third of its current \$1 billion budget under the president's 2020 fiscal year request.

For Amateur Radio Newslines, I'm Jack Parker W8ISH.

Three BIRDS Constellation CubeSats Delivered to ISS for Orbital Deployment

A Cygnus resupply mission to the International Space Station (ISS) on April 11 also delivered three CubeSats of the [BIRDS-3](#) constellation and three other CubeSats. The BIRDS-3 constellation is a project of students at the Kyushu Institute of Technology. The additional CubeSats include Swiatowid, KrakSat, and EntrySat.

All BIRDS-3 CubeSats are of the same design and have been coordinated to operate on a common downlink frequency of 435.375 MHz. Each will transmit a CW beacon and 9.6 k GMSK telemetry. The CubeSat deployer in the ISS Kibo module will deploy the BIRDS-3 CubeSats at a later date.

The BIRDS-3 constellation includes CubeSats from three countries: They are Nepal's first satellite, NepaliSat-1; Uguisu from Japan, and Sri Lanka's first satellite, Raavana-1. The primary mission of the BIRDS constellation is to provide ciphered short messages via its 435.375 MHz beacon, giving the opportunity for the Amateur Radio community to decipher the messages using a publicly available key on the [BIRDS-3 website](#). Operators able to successfully decipher the message will be recognized on the BIRDS-3 website and receive a BIRDS-3 QSL card.

In addition to their primary mission, BIRDS-3 CubeSats will conduct remote data collection based on low-powered LoRa modulation to demonstrate remote data collection and processing aboard a CubeSat to, for example, monitor water levels in flood-prone areas. The LoRa remote station will operate at 433 MHz for Sri Lanka and Nepal and at 920 MHz for Japan. Data collected will be posted on the BIRDS-3 website. Radio amateurs contributing to receiving the processed data will receive a QSL card showing the nature of data collected.

BIRDS-3 will also carry an imaging mission for public outreach and awareness and Earth magnetic field measurement; a mission to find commercial, off-the-shelf alternatives to expensive space adhesives, and active attitude stabilization as a precursor to active aiming control for future CubeSat missions.

Other CubeSats carried aloft on the same launch include: Swiatowid, which will carry a V/U transponder, with an FM voice uplink at 436.000 MHz and downlink at 145.850. Telemetry will be transmitted on 435.500 MHz and at 2435.000 MHz; KrakSat, which will transmit 9.6 k and 1.2 k telemetry at 435.500 MHz, and EntrySat, a 3U CubeSat that will measure thermosphere parameters during its orbital phase, and satellite re-entry during the re-entry phase. It will carry an Amateur Radio FM relay with a downlink of 436.950 (uplink not available) and 9.6 k packet. - *Thanks to AMSAT News Service*

IARU Argues for Protection from Wireless Power Transfer Spurious Emissions

The International Amateur Radio Union (IARU) was represented April 8 - 10, when [CEPT Committee SE24 - Short Range Devices](#) met in Ankara, Turkey, to undertake further work concerning wireless power transfer/

transmission (WPT). SE24 is considering WPT for electric vehicles (WPT-EV) and also for generic applications.

IARU already provided extensive input on the potential impact on radio communications resulting from spurious emissions from WPT devices, as detailed in [CEPT ECC Report 289](#), published in January. According to that report, given the planned density of WPT systems for electric vehicles operating in the 79 - 90 kHz range, it is calculated that there will be a widespread and serious impact for the Amateur Service in the vicinity of WPT systems, should spurious emissions, measured at 10 meters, be at the current limits of [ERC Recommendation 74-01](#).

At the Ankara meeting, IARU and other interested parties provided further input. SE24 will meet again in early July to focus on WPT issues.

Also at Ankara, IARU attended the Short-Range Devices Maintenance Group meeting (SRD/MG), where it was noted that further work was needed in SE24 before spurious emission limits for WPT devices could be addressed in a regulatory sense. IARU was represented in Ankara by IARU Region 1 President Don Beattie, G3BJ, who is spearheading the IARU's work in this area.

The issue of WPT-EV is World Radiocommunication Conference 2019 (WRC-19) Agenda Item 9.1.6, for which studies are still under way. Broadcasters, land mobile services, and others have also expressed concern about spurious WPT-EV emissions. Further work remains regarding generic WPT systems for such applications as cell phone charging, power tools, and household appliances. (ARRL News)

HEARING THE GLOBAL CALL OF RADIO WOMEN'S VOICES

STEPHEN/ANCHOR: When you hear people calling "CQ" is it OK to just sit back and listen? It is if you are in the audience of one particular performance in Denmark. Here's Ed Durrant DD5LP.

ED: It is a pileup unlike any you may ever encounter: The voices of YLs from around the world calling "CQ, CQ, CQ," sending out their call signs against the backdrop of steady even Morse Code. This is one element of the production staged by performance artist

Helle Fuglsang “fool-SONG” and composer Neli Pantsulaia in Copenhagen in March. Newslines reported on this special event which marked International Women’s Day with a celebration that blended art, radio and voice in a music that crossed international borders.

If you weren’t there in the audience at the Royal Danish Academy of Music that day you can now be part of the audience anyway. Neli has uploaded the 7-minute production and encourages YLs and OMs alike to hear the program known as “ON/OFF.”

You’ll find a link to this friendly musical pileup in the printed script on our website at arnewslines.org. Sit back and enjoy. You may hear the voices of your sisters, your mother, your friends - maybe even your daughters or yourself.

<https://vimeo.com/330774003>

For Amateur Radio Newslines this is Ed Durrant DD5LP

Ham Radio to Assist in India’s Elections

STEPHEN/ANCHOR: In India, as the general election gets under way, some voters can expect to see Amateur radio along with ballots.

JEREMY: In India, voters in West Bengal are expected to go to the polls in May to cast their ballots for four seats in the Lok Sabha, the lower house in Parliament. For their voices to be heard, however, ham radio is going to be needed. The West Bengal Radio Club has received permission from the Election Commission and the Ministry of Communications to transmit information from the polling stations to authorities over the course of various election days. India’s seven-phase election is taking place throughout the country during a six-week period but the 31 areas in West Bengal are utilizing amateur radio because they lack mobile network coverage. The secretary of the radio club Ambarish Nag Biswas VU2JFA received official word recently that the club’s proposal to assist voting had been accepted.

For Amateur Radio Newslines I’m Jeremy Boot G4NJH.

New digital mode announced

Joe Taylor, K1JT has announced a new digital mode, FT4, which is 2.5 times faster than FT8 and is an experimental digital mode designed specifically for radio contesting.

FT4 can work with signals 10dB weaker than needed for RTTY, while using much less bandwidth.

The message formats are the same as those in FT8 and encoded with the same low-density parity check code.

Transmissions last for 4.48 seconds, compared to 12.64 for FT8.

For full information download [The FT4 Protocol for Digital Contesting](#) (6-page/374KB PDF). (RSGB)

Bring a writing instrument Community Mtg Rm has the napkins for our breakfast table engineering!

COFFEE & DONUTS
EVERY THURSDAY MORNING

8:00 A.M.
To
10:00 A.M.



Community Mtg Rm
Silver Lake Mall
Coeur d’Alene

TALK-IN: 146.980, PL127.3
443.975, PL136.5

Bring a writing instrument Community Mtg Rm has the napkins for our breakfast table engineering!

Deadline for submitting articles, stories, reports, etc., is the 25th of each month for the following month’s newsletter.

Kootenai Amateur Radio Society (KARS) MEMBERSHIP APPLICATION

One year membership Rates:

New Member: \$15.00 Renewal: \$15.00 Family Membership: \$23.00

Two year membership Rates:

New Member: \$28.00 Renewal: \$28.00 Family Membership: \$42.00

Lifetime membership:

Member: \$150.00

Information Update Only

Are You An ARRL Member? Yes / No (Please Circle One)

Callsign: _____ Class: _____ Expiration: _____

First Name: _____ M.I. _____ Last Name: _____

Nickname: _____

Address1: _____

Address2: _____

City: _____ State: _____ ZIP: _____ - _____

PHONE NUMBER: (____) _____

OK to publish phone number? Yes / No (Please Circle One)

EMAIL ADDRESS: _____

OK to publish Email address? Yes / No (Please Circle One)

Do you want to receive the emailed Newsletter? Yes / No (Please Circle One)

Note: If this is a family membership, (all members with the same address), please complete the following section for your family.

Name: _____ Call: _____ Class: _____

Name: _____ Call: _____ Class: _____

Name: _____ Call: _____ Class: _____

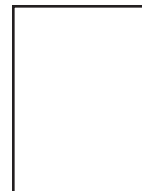
Name: _____ Call: _____ Class: _____

RETURN THIS FORM WITH YOUR DUES, (CASH OR CHECK), TO THE KARS TREASURER, OR, MAIL TO: KARS MEMBERSHIP, P.O. BOX 1765, Hayden, ID. 83835-1765.

(Office use only.)

Cash:	Check #:	Money Order:
Membership Card:	Roster:	Newsletter:

KOOTENAI AMATEUR RADIO SOCIETY
P.O. Box 1765
Hayden, ID 83835-1765



DIRECTIONS TO KARS MEETING:

Take U.S. Highway 95 to Miles Avenue (Miles is about 1 mile North of Hayden Avenue). Instead of proceeding west from the corner of Miles and Ramsey, go north about ¼ mile, to the first building on the left (West) side of the road.

2019 CLUB OFFICERS

President: Frank Krug, KD7FK
 president@k7id.org

Vice-President: Jerry Hart, W7KR
 vicepresident@k7id.org

Exec. Director: Tom Macy, W7UAT
 execdir@k7id.org

Secretary: Chad Taylor, K0KAD
 secretary@k7id.org

Treasurer: Rod Anderson, K7ZBE
 treasurer@k7id.org

Newsletter Editor: Gary Roth, KE7IAT
509 993-8468 ke7iat@comcast.net

Repeater Trustee: Larry Telles K6SPP
 trustee@k7id.org

Repeater Tech: Dale DuRee, KE7VMN

Webmaster: Lenny Gemar, N7MOT
208 691-4735 webmaster@k7id.org

Past President: Larry Telles, K6SPP
 pastpresident@k7id.org

Notice

Propagation is published monthly by the Kootenai Amateur Radio Society (KARS). The club is located in Coeur d'Alene, Idaho and serves the North Idaho and the Spokane, Washington areas.

All opinions expressed in this newsletter are those of the individual contributors and not the radio club as a whole.

KARS operates a voice repeaters on 146.980 and 443.975, and a packet repeater on 145.510 Mhz.

Anyone interested in Amateur Radio is welcome to join. Dues are \$15.00 (individual) and \$23.00 for a family membership. Contact the Treasurer if you wish to join.

If you know of anyone interested in joining KARS, you can notify the newsletter editor as to that parties' email address. A copy of this newsletter will be sent with no obligation to join.

Material can be submitted for publication in Propagation. The deadline for articles, etc., is the 25th of each month for the following month's issue.